

# Chapter 4 Enter/Edit Vitals/Measurements

## GMRV V/M ENTRY MENU

### Vitals/Measurement Data Entry

#### Description:

This option permits users to enter different types of patient vitals signs and selected measurements into the clinical patient record system. Vitals/Measurements data is stored in the GMRV Vital Measurement (#120.5) file.

#### Additional Information:

Various vitals and other measurement data can be retrieved through any of the Vitals/Measurements Results Reporting menu options. If data was entered in error, the user can correct the misinformation through the Edit a Vitals/Measurements Entered in Error option.

Patient vital signs can be entered by patient, selected room and bed and by ward location (i.e., Hospital Location (#44) file). When vitals are entered, both a date and a time are required as well as hospital location. Vital signs and other patient measurements are documented in the specific order indicated by the vital type (temperature, weight, pulse oximetry). Data representing each vital type entry is also separated by a hyphen: Temp-Pulse-Resp-B/P-Height-Weight. To omit entering a vital/measurement reading:

Enter 'N' or 'n' for the value when NOT documenting a reason for omission.

Enter an \* for the specific value when documenting the reason for omission.

Enter a single \* to document that all measurements were omitted and the reason for omission.

The software supports the documentation of measurement omissions by displaying three reasons (i.e., unavailable, pass, and refused) when an '\*' is entered for a measurement value.

Pain tracking is included in the software, where a user can document the level of pain that the patient is experiencing by using the following pain scale:

- 0 No pain
- 1 (Minimal discomfort/pain) through 10 (worst imaginable pain)
- 99 Unable to respond

Pedal Pulse can be entered for a patient as a 1 (pulse present) or a 0 (pulse absent). The pedal pulse is displayed on the Cumulative Vitals Report, the Print Vitals Entered in Error for a Patient, and the table portion of the Vital Signs Record.

Users may enter just the systolic value of Blood Pressure, (e.g., 120/, 120/D, or 120/P) for doppler and palpated methods. If no qualifier is entered, palpated is the default.

Qualifiers (alpha characters appended to the measurement's numeric value) are used to provide additional information about the vital sign(s) and measurements taken by the clinician. Qualifiers are grouped by categories such as: location (e.g., right arm, left leg), position (e.g., lying, sitting, standing), method (e.g., cuff, Doppler, auscultate, assisted ventilator, T-piece), site (e.g., right, left), quality (e.g., actual, estimated), and cuff size (e.g., adult, small adult, pediatric). Vital types can be printed by category with their associated qualifiers and synonyms through the Display Vitals Category/Qualifier/Synonym Table option. When documenting patient vital signs and measurements, the user may see a listing of valid qualifiers by entering a '?' or '??'. The application coordinator has the ability to add qualifiers and change other software parameters through the Vitals/Measurements Site Files Menu option.

Note: After entering vitals/measurements information for a patient, the software displays this data and asks you, "Is this correct? YES/". The user must answer YES to store the data after it is verified correct. If the user enters an '^' at the prompt, the application does NOT store the data and displays 'DATA DELETED' on the screen. Of course, if NO is entered after the prompt, patient information is NOT stored and all vitals/measurements data must be re-entered.

Defaults: The software has defaults for each vital/measurement except for blood pressure. These defaults are displayed when the clinician validates the measurements entered. The following list summarizes the software's defaults:

- Temperature - Oral
- Pulse - Radial
- Respirations - Spontaneous
- Height - Actual
- Weight - Actual

An application coordinator can change the temperature and pulse defaults through the Change Default Qualifiers for Temp./Pulse option.

Asterisks have two different meanings in the software.

1. When entering vitals/measurements information, the user may enter the \* to prompt the software to display reasons for not documenting a measurement. The user then selects the most appropriate entry.
2. When an \* appears in a report appended to a vitals/ measurement entry, the value of the measurement is either higher or lower than the acceptable value defined in the GMRV Vitals Parameters (#120.57) file. These file values can be edited by the package coordinator through the Edit Vitals Site Parameter File option.

All patient measurements are stored in the U.S. Customary System in File #120.5 and displayed in both U.S. customary units and metric equivalents. Small discrepancies between the entering and displaying of data is due to the conversion between scales.

Ward SICU has the following rooms:

1. 550-1
2. 550-2
3. 550-3
4. 550-4
5. 560-1
6. 560-10
7. 560-2
8. 570-1

Select the NUMBER(S) of the rooms: **5-6**

Enter room or range of rooms to enter patient vitals.

Begin entering patient vitals.

KCCK,GEORGE R                      560-1    OK? YES// **<RET>**

The software loops through the patients located in Rooms 560-1 and 560-10 and the user enters the vitals/measurements values.

- 1        TPR Pain
- 2        TPR B/P Pain
- 3        TPR B/P Ht. Wt. and Pain
- 4        TPR B/P Wt. and Pain
- 5        Temp, Detailed PR and B/P
- 6        Detailed B/P and Associated Pulse
- 7        Pulse
- 8        Weight
- 9        Circumference/Girth
- 10       Pulse Oximetry
- 11       CVP (Central Venous Pressure)
- 12       User Configurable Combination
- 13       Change Date/Time Taken
- 14       Pain

Example: Entering detailed B/P and associated pulse.

Select Vitals/Measurement Data Entry Option: **6** Detailed B/P and Associated Pulse

Vitals by (A)ll patients on a unit, (S)electd Rooms on unit, or (P)atient? **P**

Select PATIENT NAME:        **PARKER,PETER P.**                      --                      500-1                      YES  
SC VETERAN

Select Hospital Location: 4E// **<RET>**        4E

To omit entering a vital/measurement reading:

Enter 'N' or 'n' for the value when NOT documenting a reason for omission.  
Enter an \* for the specific value when documenting the reason for omission.  
Enter a single \* to document that all measurements were omitted and the reason for omission.

BP-Pulse: 120/70-60

The software displays selections for documenting detailed blood pressures. When a blood pressure is entered with a qualifier for doppler or palpated and no diastolic reading, (e.g., 120/d), the method does not display and will not be editable. Each qualifier must be separated by a comma. The user is not required to enter qualifiers to proceed to the next prompt.

Qualifiers for BLOOD PRESSURE:

LOCATION	POSITION	METHOD	CUFF SIZE
1 L ARM	5 LYING	8 CUFF	13 ADULT
2 L LEG	6 SITTING	9 DOPPLER	14 LG ADULT
3 R ARM	7 STANDING	10 INVASIVE	15 PEDIATRIC
4 R LEG		11 NON-INVASIVE	16 SM ADULT
		12 PALPATED	17 THIGH

Select a number under each category (optional).

Separate the numbers with ',': 1,6,8

L ARM SITTING CUFF

The software displays selections for documenting detailed pulse.

Qualifiers for PULSE:

SITE	METHOD	POSITION
1 LEFT	3 AUSCULTATE	6 LYING
2 RIGHT	4 DOPPLER	7 SITTING
	5 PALPATED	8 STANDING

Select a number under each category (optional).

Separate the numbers with ',': 1

LEFT

B/P: 120/70 L ARM SITTING CUFF

Pulse: 60\* RADIAL LEFT

Is this correct? YES// <RET>

After reviewing the entry, a user can reject or accept the data. This is the last chance to change any possible errors during data entry. The user is able to correct errors at a later time using the error correction option, Edit a Vital/Measurement Entered in Error, which will be discussed later in this chapter.

Enter another B/P? NO// <RET>

If YES is entered, the user can enter another B/P and pulse under the same time for a different position, location, etc..



## GMRV SF511

### V/M Graphic Reports

#### Description:

This option provides the user with 5 different reports, the first is a report simulating the Standard Form 511 - Vital Signs Record (Vital Flow Sheet), second is a B/P Plotting Chart, third is a Weight Chart, fourth is a Pulse Oximetry/ Respiratory Graph, and last is a Pain Chart. Patient information contained in this report is stored in the GMRV Vital Measurement (#120.5) file, and the GMRY Patient I/O (#126) file.

#### Additional Information:

The information printed in this report was entered through the Vitals/ Measurements and the GMRY Intake and Output applications. All 24 hour intake and output totals are in cubic centimeters (i.e., milliliters). Reports can be printed by selected patient, for all patients on a ward, and for patients in a specific hospital room/bed. Refer to Printer Issues in the Package Management section for additional information on setting up Kyocera F-800A and Hewlett-Packard LaserJet printers for printing linear graphic reports. Users may print the graphic reports using a dot matrix printer, data plotted is not connected by lines. Only radial, brachial, and apical pulses are plotted on the graph, all pulses appear on the table below the graph in the Vital Signs Record. The reason for omission will display on all the graphic reports.

#### Menu Display:

Select Vitals/Measurement Option: **2** Vitals/Measurements Results Reporting

- 1 V/M Graphic Reports
- 2 Latest Vitals Display for a Patient
- 3 Latest Vitals by Location
- 4 Cumulative Vitals Report
- 5 Print Vitals Entered in Error for a Patient

#### Screen Prints:

Select Vitals/Measurements Results Reporting Option: **1** V/M Graphic Reports

- 1 Vital Signs Record
- 2 B/P Plotting Chart
- 3 Weight Chart
- 4 Pulse Oximetry/Respiratory Graph
- 5 Pain Chart

Select a number between 1 and 5: **1** Vital Signs Record// **<RET>**

Vitals by (A)ll patients on a ward, (S)elected Rooms on ward, or (P)atient? **P**

Enter the patient's name.

**GMRV DISPLAY V/M****Latest Vitals Display for a Patient****Description:**

This option prints the latest vitals/measurements for an individual patient. Patient data is retrieved from the GMRV Vital Measurement (#120.5) file.

**Additional Information:**

Data displayed in this report is entered through the Vitals/Measurement Data Entry option, or the Edit a Vital/Measurement Entered in Error option. This report includes vitals/measurements obtained as an outpatient, inpatient, or both. Only radial, brachial, and apical pulses appear on the report.

**Menu Display:**

Select Vitals/Measurement Option: **2** Vitals/Measurements Results Reporting

- 1 V/M Graphic Reports
- 2 Latest Vitals Display for a Patient
- 3 Latest Vitals by Location
- 4 Cumulative Vitals Report
- 5 Print Vitals Entered in Error for a Patient

**Screen Prints:**

Select Vitals/Measurements Results Reporting Option: **2** Latest Vitals Display for a Patient

Select PATIENT NAME: **STARK, ANTHONY L.** 01-19-25 589632111 NSC  
VETERAN

DEVICE: Enter appropriate response

MAR 25, 1997 (11:21) LATEST VITALS REPORT PAGE 1

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4M1-A      STARK, ANTHONY L.      112-33-4443

Temp.:      (03/21/97@09:48) 99.4 F (37.4 C)(ORAL)
Pulse:      (03/21/97@09:48) 55*(RADIAL)
Resp.:      (03/21/97@09:48) 20
Pulse Ox:   (03/21/97@09:48) 99% with supplemental O2 3L/min 30%
            - VENTURI MASK
B/P:        (03/13/97@09:28) 120/80
Ht.:        (03/20/97@10:39) 2 ft 10 in (86.36 cm)
Wt.:        (03/20/97@10:39) 500 lb (227.27 kg)(ACTUAL, BED)
BMI:        305*
CVP:        (03/21/97@09:48) 24 cmH2O (17.6 mmHg)
Circ/Girth: (01/23/97@08) 32.1 in (81.53 cm)(ABDOMINAL)
Pain:       (03/22/97@09:22) 5
  
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## Vitals/Measurements Reports

Press return to continue <RET>

### **Menu Access:**

The Latest Vitals Display for a Patient option is accessed through the Vitals/ Measurements Results Reporting option of the Vitals/Measurement menu.



**GMRV V/M BY LOCATION****Latest Vitals by Location****Description:**

This option prints the latest vitals/measurements for all patients on a specific ward. Vitals data for a patient is stored in the GMRV Vital Measurement (#120.5) file.

**Additional Information:**

Data printed in this report is entered through the Vitals/Measurement Data Entry option, or the Edit a Vital/Measurement Entered in Error option. Only radial, brachial, and apical pulses appear on the report.

**Menu Display:**

Select Vitals/Measurement Option: **2** Vitals/Measurements Results Reporting

- 1 V/M Graphic Reports
- 2 Latest Vitals Display for a Patient
- 3 Latest Vitals by Location
- 4 Cumulative Vitals Report
- 5 Print Vitals Entered in Error for a Patient

**Screen Prints:**

Select Vitals/Measurements Results Reporting Option: **3** Latest Vitals by Location

Select WARD LOCATION NAME: **MICU**

Enter appropriate ward name.

DEVICE: Enter appropriate response

MAR 25,1997 (11:22) VITALS REPORT FOR UNIT: MICU - HINES, IL

PAGE 1

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          TRAMG,HENRY          793-13-3012

Temp.:    (03/20/97@1)      99.6 F  (37.6 C)(ORAL)
Pulse:    (03/20/97@1)      88(RADIAL)
Resp.:    (03/20/97@1)      24
B/P:      (07/17/96@14:58) 120/80
  
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Press return to continue or "^" to quit <RET>

MAR 25, 1997 (11:22) VITALS REPORT FOR UNIT: MICU - HINES, IL

PAGE 2

500-1                      PARKER, PETER P.

Temp.:	(03/20/97@1)	100 F (37.8 C)(ORAL)
Pulse:	(03/20/97@1)	55*(RADIAL)
Resp.:	(03/20/97@1)	20
Pulse Ox:	(02/20/97@07)	89% with supplemental O2 3.5L/min 40% - AEROSOL/HUMIDIFIED MASK
B/P:	(02/21/97@14:17)	120/70(L ARM, LYING, CUFF)
Ht.:	(02/20/97@08)	6 ft (182.88 cm)(ESTIMATED)
Wt.:	(02/20/97@08)	200 lb (90.91 kg)
BMI:		27
CVP:	(02/21/97@14:28)	19.04 cmH2O (14.0 mmHg)
Circ/Girth:	(02/21/97@14:28)	32.25 in (81.92 cm)(THIGH)
Pain:	(03/22/97@09:22)	5

Press return to continue **<RET>**

### Menu Access:

The Latest Vitals by Location option is accessed through the Vitals/Measurements Results Reporting option of the Vitals/Measurement menu.

**GMRV CUMULATIVE V/M****Cumulative Vitals Report****Description:**

This option prints vitals/measurement information for patients over a user specified period of time. Data comes from the GMRV Vital Measurement (#120.5) file.

**Additional Information:**

Data printed in the reports is entered into the database through the Vitals/ Measurement Data Entry option, or the Edit a Vital/Measurement Entered in Error option. Reports can be printed by individual patient, for all patients on a ward, or for patients in a specific hospital room/bed.

**Restrictions:**

Data prints in chronological order.

**Menu Display:**

Select Vitals/Measurement Option: **2** Vitals/Measurements Results Reporting

- 1 V/M Graphic Reports
- 2 Latest Vitals Display for a Patient
- 3 Latest Vitals by Location
- 4 Cumulative Vitals Report
- 5 Print Vitals Entered in Error for a Patient

**Screen Prints:**

Select Vitals/Measurements Results Reporting Option: **4** Cumulative Vitals Report

Print by patient.

Vitals by (A)ll patients on a ward, (S)elected Rooms on ward, or (P)atient? **P**

Select PATIENT NAME: **STARK, ANTHONY L.** 01-19-25 589632111 NSC  
VETERAN

Enter patient name.

Start with DATE (TIME optional): JAN 3,1993@10:00// **1/1/95** (JAN 01, 1995)

## Vitals/Measurements Reports

Enter an appropriate beginning date for this report. The default date is the date of admission for inpatients or T-7 for outpatients.

Go to DATE (TIME optional): NOW// <RET> (FEB 25, 1997@09:46)

Enter appropriate ending date for this report.

DEVICE: Enter appropriate response

FEB 25, 1997 (10:52)

Cumulative Vitals/Measurements Report

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07/05/95

14:00

T: 97.7 F (36.5 C) (ORAL)  
P: 89 (RADIAL)  
R: 20  
B/P: 145/90 (R ARM, SITTING)  
Ht: 72.00 in (182.88 cm)  
Wt: 225.00 lb (102.27 kg)  
Body Mass Index: 31\*

06/18/96

08:00

P: 62 (RADIAL)  
R: 20  
B/P: 122/68 (R ARM, SITTING)

08:01

B/P: 102/60\* (L ARM, SITTING)

08:02

B/P: 100/60\* (R ARM, STANDING)

08:03

B/P: 120/70 (L ARM, STANDING)

08:04

B/P: 110/60\* (R ARM, LYING)

08:05

B/P: 110/70 (L ARM, LYING)

02/17/97

08:00

T: 99.0 F (37.2 C) (ORAL)  
P: 75 (LEFT, RADIAL, PALPATED, SITTING)  
R: 14 (SITTING)  
B/P: 120/70 (L ARM)  
Ht: 72.00 in (182.88 cm)  
Wt: 200.00 lb (90.91 kg) (ACTUAL, STANDING)  
Body Mass Index: 27  
Pulse Ox.: 92 % with supplemental O2 3.5L/min 30%  
via MASK

02/19/97

14:00

T: 98.7 F (37.1 C) (ORAL)  
P: 70 (LEFT, RADIAL)  
R: 20 (STANDING)  
B/P: 120/60\* (L ARM, STANDING)  
Ht: 72.00 in (182.88 cm)  
Wt: 205.00 lb (93.18 kg) (ACTUAL, STANDING)  
Body Mass Index: 28\*  
Pulse Ox.: 98 % with supplemental O2 4L/min 25%  
via MASK  
Pain: 5